

Name: _____
PC: More Multivariable Systems Problems

Date: _____
Ms. Loughran

Solve each system of equations.

1. $3x - 9y + 7z = -21$ $-4x + 5y - 2z = 5$ $-11x + y + 12z = -53$	2. $-2x - 8y - 7z = 87$ $x + 9y - 6z = -2$ $-10x + 4y - 5z = 5$	3. $-11x + 3y + 12z = 61$ $-12x - 11y + 8z = 195$ $-10x - 6y - 2z = 134$
4. $3x + 4y + 9z = -51$ $-y - 5z = 24$ $-11x - 7y - 12z = 55$	5. $10x + 3y - z = -55$ $3x - 6y - 6z = 36$ $-6x + 2y - 9z = 106$	6. $4y + 11z = 85$ $-3x + 6y - 3z = 3$ $-8x - 9y - 12z = -70$
7. $5x + 5y - z = -360$ $7x - 3y - 11z = 48$ $4x - 10y + 5z = 100$	8. $-8x + 6y - 2z = 554$ $4x - 3y - 5z = -115$ $x - 8y - 7z = -178$	9. $4x + 4y - 5z = -479$ $-6x + 4y - 5z = 21$ $-11x - 2y - 3z = 431$
10. $12x - 10y + z = 705$ $-9x - 7y - 2z = 75$ $x - 10y + 5z = 663$	11. $-6x + 5y - 6z = 258$ $x + y + z = -65$ $12x - 9y - 8z = 432$	12. $-4x - 3y + 6z = -108$ $-11x + 12y - 7z = -458$ $-x + 8y - 11z = -52$
13. $4x - 9y - 3z = -311$ $-6x - 5y + 2z = 161$ $-10x - z = 264$	14. $-11x - 7y - 4z = 48$ $-9x + 10y - 5z = 795$ $8x + 2y - 12z = 518$	15. $-6x - 6y - 12z = 72$ $11x + y - 4z = -108$ $-9x + 10y + 2z = -408$
16. $-5x + 8y + 3z = 122$ $7x - 2y - 12z = -783$ $-8x - 9y - 10z = 15$	17. $11x - 6y - 3z = -274$ $4x - 5y + 7z = 145$ $-4x + 6y - 4z = -132$	18. $-x + 6y + z = -15$ $-2y - 4z = -68$ $-5x - 5y + 4z = 253$

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PC: Mega Multivariable System

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1. Solve the following system algebraically:

$$y + z - 2w = -3$$

$$x + 2y - z = 2$$

$$2x + 4y + z - 3w = -2$$

$$x - 4y - 7z - w = -19$$